

## Quick Installation Guide

# LSI® SAS 9300-16e PCI Express® to 12Gb/s SAS Host Bus Adapter



**Thank you for purchasing the LSI SAS 9300-16e Host Bus Adapter (HBA). Please take a few minutes to read this quick installation guide before you install the HBA.**

**For more information about any topic covered in this guide, refer to the documents on the accompanying LSI 12Gb/s SAS+SATA Drivers and Documentation CD.**

The LSI 12Gb/s SAS+SATA Drivers and Documentation CD contains device drivers for the Windows® operating system and the Linux® operating system. The CD also contains the following LSI documentation:

- “LSI SAS 9300-16e PCI Express to 12Gb/s Serial Attached SCSI (SAS) Host Bus Adapter User Guide”
- LSI HBA technical product briefs

**ATTENTION:** Perform all installation work at an electrostatic discharge (ESD)-safe workstation that meets the requirements of EIA-625, *Requirements for Handling Electrostatic Discharge Sensitive Devices*. You must perform all actions in accordance to the latest revision of the IPC-A-610 ESD-recommended practices.

To install the LSI® 12Gb/s SAS HBA, follow these steps:

**1. Unpack the HBA, and inspect it for damage.** Unpack the HBA in a static-free environment. Remove the HBA from the antistatic bag, and carefully inspect the device for damage. If you notice any damage, contact LSI or your reseller support representative.

**ATTENTION:** To avoid the risk of data loss, make a backup of your data before changing your system configuration.

**2. Prepare the computer.** Turn off the computer, and disconnect the power cord from the rear of the power supply.

**CAUTION:** Disconnect the computer from the power supply and from any networks to which you will install the HBA, or you risk damaging the system or experiencing electrical shock.

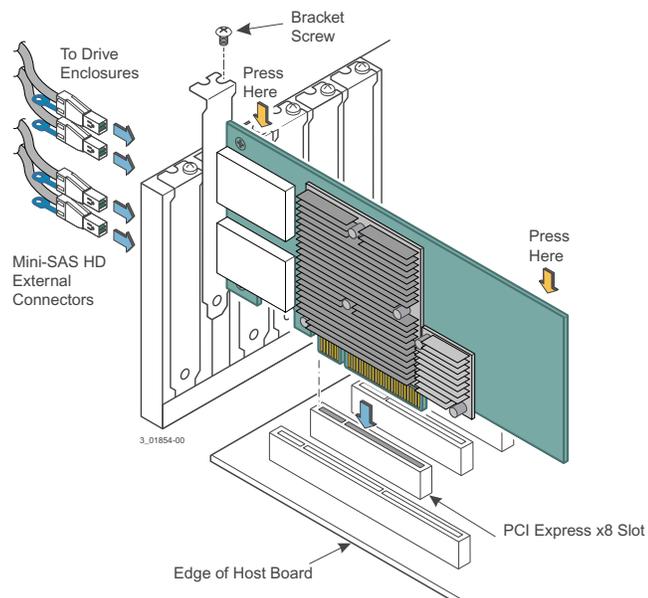
**3. Remove the cover from the chassis.**

**4. Check the mounting bracket on the HBA (system-dependent).**

**5. Insert the HBA into an available PCIe slot.** Locate an empty x8 PCIe slot. Remove the blank bracket panel on the rear of the computer that aligns with the empty PCIe slot. Save this bracket screw, if applicable. Align the HBA to a PCIe slot. Press down gently, but firmly, to seat the HBA correctly in the slot. The following figure shows how to insert the HBA into a PCIe slot.

**NOTE:** The shape, size, and locations of the components on your HBA and its bracket might vary from this illustration. The HBA requires a x8 PCIe slot.

### Install an LSI 12Gb/s x8 HBA in a PCIe Slot



**6. Secure the HBA bracket to the system's chassis.** Install the bracket screw, if applicable, or engage the system retention mechanism to secure the HBA to the system's chassis.

**7. Replace the cover of the chassis.**

**8. Connect SAS cables between the HBA and the SAS enclosure that contains SATA or SAS devices.** The LSI 12Gb/s SAS HBA has four SFF-8644, external x4 mini-SAS HD connectors. Use a cable with an external mini-SAS HD connector (SFF-8644) on one end (to connect to the HBA) and the appropriate connector to attach to the enclosure that contains SAS or SATA devices on the other end.



**9. Reconnect any power cords and power up the system.** Reconnect any power cords and reconnect any network cables. Turn on the power.

The hardware installation of your LSI 12Gb/s SAS HBA is complete.

## WINDOWS DRIVER INSTALLATION

Use the LSI\_SAS3.SYS driver for the Windows XP x64, Windows Server<sup>®</sup> 2003 (x86, x64, or IA64), Windows Server 2008 (x86, x64, or IA64), Windows Server 2012, Windows Vista<sup>®</sup> (x86 or x64), Windows 7, or Windows Server 2008 R2 operating systems (OSs). LSI does not support the Windows XP x86 server.

Refer to the Windows `ReadMe.txt` file on the *LSI 12Gb/s SAS+SATA Drivers and Documentation* CD for driver installation directions for your particular OS version.

## LINUX DRIVER INSTALLATION

Refer to the Linux `ReadMe.txt` file on the *LSI 12Gb/s SAS+SATA Drivers and Documentation* CD. LSI provides open source drivers that you can implement in the following ways:

- Adding precompiled binaries to an existing installation using driver update disks or RPM software packages for selected distributions.
- Adding or updating the Fusion-MPT™ source in the Linux kernel for any distribution.

## TECHNICAL SUPPORT

For assistance installing, configuring, or running the LSI SAS 9300-16e HBA, contact LSI Technical Support:

**E-mail:** [support@lsi.com](mailto:support@lsi.com)

**Phone:** 1-800-633-4545 (North America)  
00-800-5745-6442 (International)

**Web Site:** <http://www.lsi.com/channel/products/storagecomponents/Pages/HBAs.aspx>

## WARRANTY NOTICE

1. Warranty does not cover the return of parts damaged by changing the bracket.
2. Warranty does not cover ESD damage to the HBA. HBAs returned without a bracket mounted on the board will be returned without return merchandise authorization (RMA) processing.

LSI, the LSI & Design logo, Storage.Networking.Accelerated., and Fusion-MPT are trademarks or registered trademarks of LSI Corporation in the United States and/or other countries. All other brand and product names may be trademarks of their respective companies.

PCI Express and PCIe are registered trademarks of PCI-SIG. Windows and Windows Vista are registered trademarks of Microsoft Corporation.

LSI Corporation reserves the right to make changes to the product(s) or information disclosed herein at any time without notice. LSI Corporation does not assume any responsibility or liability arising out of the application or use of any product or service described herein, except as expressly agreed to in writing by LSI Corporation; nor does the purchase, lease, or use of a product or service from LSI Corporation convey a license under any patent rights, copyrights, trademark rights, or any other of the intellectual property rights of LSI Corporation or of third parties. LSI products are not intended for use in life-support appliances, devices, or systems. Use of any LSI product in such applications without written consent of the appropriate LSI officer is prohibited.

**Corporate Headquarters**  
San Jose, CA  
800-372-2447

**Email**  
[globalsupport@lsi.com](mailto:globalsupport@lsi.com)

**Website**  
[www.lsi.com](http://www.lsi.com)

Document Number: 53857-01A  
Copyright © 2013 LSI Corporation  
All Rights Reserved. April 2013.

